

Applicant : Nagarajan Vaidehi, et al.
Serial No. : 09/816,755
Filed : March 23, 2001
Page : 2 of 14

Attorney's Docket No.: 06618-606001 / CIT 3191



Amendments to the Specification:

Please amend the title as follows: Method ~~and Apparatus~~ for Predicting Structure of Transmembrane Proteins

Please replace paragraph 0040, beginning at page 20, line 15, with the following amended paragraph:

[0040] Example 2. Modeling of six olfactory receptors. Sequences for ORS25, ORS18, ORS19, ORS6, ORS46 and ORS50 were obtained from taken from Malnic et al. For each receptor, the membrane was simulated by using explicit lipid bilayers of dilauoylphosphatidyl choline. The choice of lipid in the OR case is supported by experimental indications, Gimenez, C. (1998) Rev. Neurol. (Paris) 26, 232-239; Kiefer, H. et al. (1996) Biochemistry 35, 16077-16084, that the membrane surrounding the ORs *in vivo* can be satisfactorily simulated by using a single-component lipid system of dilauoylphosphatidyl choline. Final atomic level models for the six receptors are shown in FIG. 6. Predicted structural models for S6, S18, S19, S25, S46 and S50 are included in PDB format in Tables 2 through 7, respectively, submitted on compact disc and incorporated by reference above. An explanation of the PDB file format can be found on the Internet at www.rcsb.org/pdb/. See also Berman, H. M., et al. (2000) Nucleic Acids Res. 28, 235-242.